DATE: 12/03/2001 (5

PATENT APPLICATION: US/09/924,035A

TIME: 12:48:01

Input Set : N:\EBONY'S\924035.txt

Output Set: N:\CRF3\11212001\I924035A.raw



4 <110> APPLICANT: Grlach, Jrn 6 <120> TITLE OF INVENTION: Expressed Sequences of Arabidopsis thaliana 9 <130> FILE REFERENCE: 2011US W--> 11 <140> CURRENT APPLICATION NUMBER: US/09/924,035A 11 <141> CURRENT FILING DATE: 2000-08-11 13 <150> PRIOR APPLICATION NUMBER: US 60/148,784 14 <151> PRIOR FILING DATE: 1999-08-13 16 <160> NUMBER OF SEQ ID NOS: 900 18 <170> SOFTWARE: FastSEQ for Windows Version 3.0 20 <210> SEO ID NO: 1 21 <211> LENGTH: 427 22 <212> TYPE: DNA 23 <213> ORGANISM: Arabidopsis thaliana 25 <220> FEATURE: 26 <221> NAME/KEY: misc\_feature 27 <222> LOCATION: (1)...(427) 28 <223> OTHER INFORMATION: n = A, T, C or G 30 <400> SEQUENCE: 1 60 31 acqqtatcqa taaqcttqat atcqaattcq cggccgcgcg gcatgattga aggatttata 32 tggtcaccaa gaagcggtga caccaataac caacccgata gttggcctct tgaagatggt 120 cctcattctg atttcacggg acctacctcg gggtgcacag cgtgtgtagc tcttattaaa 180 240 34 gataagaage tetttgttge aaatgeeggt gaeteaegtt gtgtgatate aagaaagagt 35 caggettaca atetttetaa agateacaag eetgatettg aagttgaaaa agaaaggata 300 360 W--> 36 ttgnangctg gtggctttat tcacgctggg agaatcaatg gaagcttgaa tctgacaaga 37 gccattggtg atatggagtt caagcagaat aagtttttac catctgaaaa gcaaatggtt 420 427 38 actgctq 40 <210> SEQ ID NO: 2 41 <211> LENGTH: 206 42 <212> TYPE: DNA 43 <213> ORGANISM: Arabidopsis thaliana 45 <400> SEQUENCE: 2 46 agataatgaa catatttctg tccctgaagt ttttgctctc ttcagttgca agctccccta 60 47 tttcggtttg gaaacgtctg aggagttcaa tagcgatatt tctgaactcg ttttctcgtc 120 180 48 ctttcatgct cacaatcacc ttaaccttgt caccatcttg caagaacttt tgggcagccc 206 49 ttagacgaac ggaataatca tgctga 51 <210> SEQ ID NO: 3 52 <211> LENGTH: 369 53 <212> TYPE: DNA 54 <213> ORGANISM: Arabidopsis thaliana 56 <220> FEATURE: 57 <221> NAME/KEY: misc\_feature 58 <222> LOCATION: (1)...(369) 59 <223> OTHER INFORMATION: n = A, T, C or G 61 <400> SEQUENCE: 3 60 62 cggtatcgat aagcttgata tcgaattcgc ggccgcctcg gtgaccatat tcaaaacttt cccacgttaa ttctctcttc tttgttttgt ttcagattca ttacttttct ccaaaaaact 120 RAW SEQUENCE LISTING DATE: 12/03/2001 PATENT APPLICATION: US/09/924,035A TIME: 12:48:01

Input Set : N:\EBONY'S\924035.txt

Output Set: N:\CRF3\11212001\1924035A.raw

	64 ttcttcaaga tctgttcttt taaataatta tggcggaaga acatcgatgc gagacgcctg	180
	65 aaggtcaccg tctctgcgtt aacaactgcg gtttcttcgg aagctcagcg acaatgaatc	240
W>		300
	67 caaccgtcga atcatctctc tctccggtga tcgcacctgt tctcgaaaac tacgcggcgg	360
	68 agttagaga	369
	70 <210> SEQ ID NO: 4	
	71 <211> LENGTH: 430	
	72 <212> TYPE: DNA	
	73 <213> ORGANISM: Arabidopsis thaliana	
	75 <400> SEQUENCE: 4	
	76 ccatggcgtt agaactatgg caaactctca aagaagcaat ccatgcttac acaggtcttt	60
	77 ctcctgttgt cttcttcact gctctagctc tcgccttcgc catttaccaa gtcatctcag	120
	78 gctggtttgc ctcgccgttc gatgatgtta accgacatca gagagctaga tccttggctc	180
	79 aagaggagga gccaccgatt cctcagcctg ttcaagtcgg tgagatcacg gaggaggagc	240
	80 ttaaacagta cgatggctct gatcctcaaa agccccttct tatggctatc aaacatcaga	300
	81 totatgatgt tacacaaagc aggatgttct acggaccagg aggaccatat gctttgtttg	360
	82 cagggaaaga cgctagccga gctcttgcaa agatgtcatt tgaggagaaa gacttgactt	420
	83 gggatgtctc	430
	85 <210> SEQ ID NO: 5	
	86 <211> LENGTH: 106	
	87 <212> TYPE: DNA	
	88 <213> ORGANISM: Arabidopsis thaliana	
	90 <400> SEQUENCE: 5 91 cqqtatcqat aaqcttqata tcqaattcqc gqccqcqcac taattaatca tqctacatac	60
	91 eggtategat aagettgata tegaattege ggeegegeae taattaatea tgetaeatae 92 ataqteaaag ttegtagtaa gtagaettag aaatagttae egttag	106
	94 <210> SEQ ID NO: 6	100
	95 <211> LENGTH: 271	
	96 <212> TYPE: DNA	
	97 <213> ORGANISM: Arabidopsis thaliana	
	99 <400> SEQUENCE: 6	
	100 agacttgacg ttgcaaatgc cgttaatcct ctcccaaagg aggaagacaa gaaacttgtt	60
	101 atagtgaaga cgcccaatgc agtaaatccg ctcgtatggg attattctcc acttctcacc	120
	102 attgatacct gggagcacgc ttactatctg gattttgaga accgaagagc tgaatacata	180
	103 aatacattca tggaaaagct tgtgtcatgg gaaactgtaa gcacaaggtt ggaatccgca	240
	104 attgctcgag cagtgcaaag agaacaagaa g	271
	106 <210> SEQ ID NO: 7	
	107 <211> LENGTH: 322	
	108 <212> TYPE: DNA	
	109 <213> ORGANISM: Arabidopsis thaliana	
	111 <220> FEATURE:	
	112 <221> NAME/KEY: misc_feature	
	113 <222> LOCATION: (1)(322)	
	114 <223> OTHER INFORMATION: n = A,T,C or G	
	116 <400> SEQUENCE: 7 117 ttttttaaa ccaaatagat aggatatatt tattcaaatc agaagcacat tagggaacac	60
	118 aagaacagag acaattcaac acatgtaaat gcataaaatc aaacaaactg aaacacaaag	120
W>		180
M>		240
., .	121 acttgctctg ttattgcage tacttgttce gtctgctcag tctccaaace ctgaacagga	300

DATE: 12/03/2001 TIME: 12:48:01 PATENT APPLICATION: US/09/924,035A

Input Set : N:\EBONY'S\924035.txt

Output Set: N:\CRF3\11212001\1924035A.raw

122	acagattcag cagtcggtgt	ct				322
124	<210> SEQ ID NO: 8					
125	<211> LENGTH: 497					
126	<212> TYPE: DNA					
127	<213> ORGANISM: Arabido	psis thalia	ına			
129	<400> SEQUENCE: 8					
130	ttttttttt ttttttaat	cataaaaatg	aaagcctctt	ccataggcag	aaacttacac	60
131	aaacatttga gaattcacta	cttagacatt	gtctcttgtt	actaccgagt	taaaaagatt	120
132	tacattactc tcctcactcc	atcaacttct	ttgaattgtt	ccatctctaa	ccaccatacg	180
133	gtaagccgag cctaagggaa	gtgtcggagc	totoggagto	aacaggcgct	ccggtagagt	240
134	ttccggcgtt agtaatagac	tecgacgact	atcettecte	gtacacagca	gegtteteeg	300
135	attcagcacc accgtgtgca	tgcacattgt	tacatatttq	catqccaaqt	cgctcgttct	360
136	cttccgttag ttgcgttccc	tgcaaaaatc	aagacaaaac	atatcattaa	gttctctagc	420
137	taagtatttg cattttgtgt	ttttagtggc	accatgtgtt	ttgaatttct	ctagagatca	480
138	actaactacg aatgage	cccagagga		J	5 5	497
	<210> SEQ ID NO: 9					
	<211> LENGTH: 347					
	<211> LENGTH. 347 <212> TYPE: DNA					
	<213> ORGANISM: Arabido	ncie thalia	na			
		psis charic	ina			
	<400> SEQUENCE: 9 ttcatttacg taaacacgac	2020102212	attatasaas	tgaggatgaa	tatttactac	60
146	tggcaaagta acttaaacaa	agagicaata	agggtaagg	atataaaaa	aactacttaa	120
147		adacadadac	ttastttass	toaacataac	atctcaacat	180
148	accagtaaga aaaccgatca	clatelleal		ttaataataa	attaatatt	240
149	gcgtttgtat ttgcccgggt	taccagacca	ggtagactty	ccgacgaccg	actogaacet	300
150		ttttttcctc	gacatettet	cgaagaatct	actecaacet	347
151	tocataacto gggtcagcot	aacactcttg	ggtcttccta	taaggta		34/
	<210> SEQ ID NO: 10					
	<211> LENGTH: 216					
	<212> TYPE: DNA					
	<213> ORGANISM: Arabido	psis thalia	ana			
	<400> SEQUENCE: 10				L - L	<b>C</b> 0
159	ttttttttt ttttccaga	aaaaaggaca	agccaataaa	acatagattg	tctacacaca	60
160	cacttctctt aaaaatacaa	actttgagga	aacgagagaa	actttgaaag	ccatacatac	120
161				agattggagg	aaggattcgg	180
162	gtatccttta tactcaaatt	gtttcttgga	aaagcc			216
	<210> SEQ ID NO: 11					
165	<211> LENGTH: 329					
	<212> TYPE: DNA				•	
	<213> ORGANISM: Arabido	psis thalia	ana			
169	<400> SEQUENCE: 11					
170	ttttttttt tttttttt	ttttttttg	gaggagaaga	gctgaatttt	tctaattaat	60
171	aaataaaatt tggagcccat	aatttacatt	gctatatctc	tctatagctc	ctggcttcga	120
172	agtaatttta tcatcgtcca	cacaaaaaaa	acctatttcg	agtatacaaa	ctactaatta	180
173	aatcggaacc actgtgccca	cttttcttt	ctatcagaga	aactaaatca	gccagtgctt	240
174		gcagtgtagc	agacaaggcc	aagattctga	accgatattg	300
175	aagagagagt caacaacatc	atacaagtg				329
	<210> SEQ ID NO: 12					
	<211> LENGTH: 145					
	<212> TYPE: DNA					

PATENT APPLICATION: US/09/924,035A

DATE: 12/03/2001 TIME: 12:48:01

Input Set : N:\EBONY'S\924035.txt

Output Set: N:\CRF3\11212001\1924035A.raw

180	) <213> ORGANISM: Arabidopsis thaliana	
182	2 <400> SEQUENCE: 12	
183	3 ttttttaaa caaacagtct acacatagac aactcaaagc caacaaatga	aacaaaatat 60
184		acatgagtat 120
185	acgtatatet atatatatac gtatt	145
	7 <210> SEQ ID NO: 13	
	8 <211> LENGTH: 318	
	9 <212> TYPE: DNA	
	O <213> ORGANISM: Arabidopsis thaliana	
	2 <400> SEQUENCE: 13	
193		atgttatagg 60
194		agtataagtc 120
195		acaactcttc 180
196		gttcttctta 240
197		acaagtctca 300
198		318
	0 <210> SEQ ID NO: 14	
	1 <211> SEQ 15 NO. 14 1 <211> LENGTH: 278	
	1 <211> LENGIR. 270 2 <212> TYPE: DNA	
	3 <213> ORGANISM: Arabidopsis thaliana	
	5 <400> SEQUENCE: 14	
		caacacgagc 60
206		tgacagtgtt 120
207		tttctcttat 180
208	· · · · · · · · · · · · · · · · · · ·	ttccgatggc 240
209		278
210		
	2 <210> SEQ ID NO: 15 3 <211> LENGTH: 276	
	4 <212> TYPE: DNA	
	4 <212> TIPE: DNA 5 <213> ORGANISM: Arabidopsis thaliana	
	7 <400> SEQUENCE: 15	
21/	8 tttttttta gttaaaattt tattgattge getagteatt ttatgtttaa	attcctaaaa 60
		acatttaatt 120
219		gcaataagca 180
220		tcttgaaccg 240
221		276
222		
	4 <210> SEQ ID NO: 16	
	5 <211> LENGTH: 566	
220	6 <212> TYPE: DNA 7 <213> ORGANISM: Arabidopsis thaliana	
	9 <220> FEATURE:	
	0 <221> NAME/KEY: misc_feature	
230	1 <222> NAME/KEI: MISC_IEUCUIC	
23I	1 <222> LOCATION: (1)(566) 2 <223> OTHER INFORMATION: n = A,T,C or G	
	4 <400> SEQUENCE: 16	
		qacaatcaat 60
235		tcagaaatct 120
236		3
237 238		
∠38	talaaayala adadaayeee aeyooodaaca aaabaaaysa aayaaanoon	

DATE: 12/03/2001 TIME: 12:48:01 PATENT APPLICATION: US/09/924,035A

Input Set : N:\EBONY'S\924035.txt

Output Set: N:\CRF3\11212001\1924035A.raw

	239		300
	240	ttagtgagtc aaaacgctgt gctgaagtag ctactcacca cattctcaca cagaatttgg	360
	241	agaaccttag cattacttgg cttcacacat cttggcatct taaactgtcc agccgatgaa	420
	242	ccaagcccga gaaaatgttc ttgaatcttc cggaaagttc cttttgcgac aactctcagc	480
W>	243	tccaaggete caatagtett geattteegg nnnetaaegt aaceegeate gatgaatget	540
	244	cggtctaaac agttgcagca atcttg	566
	246	<210> SEQ ID NO: 17	
	247	<211> LENGTH: 328	
	248	<212> TYPE: DNA	
	249	<213> ORGANISM: Arabidopsis thaliana	
	251	<400> SEQUENCE: 17	
	252	ttttttttt tttgtttcta ttttttgctt tcctaatcgt catctgaagt ttccggatcg	60
	253	ggtaatttgt ttaaatcaac ccgttcaacg atccattaca cctcttaaac ccttctttac	120
	254	tactacactc cataagatca tcattaatac gataatcact atgattatct acgtaatcat	180
	255	gattaccacg ttgatgttga tgatgatgat gatgacgatt ccctcccgcc cccgccgctt	240
	256	ctaacgcate cacttgtget ecaaceteeg eegettttet eettatatae geegeegaea	300
	257	tatetecace accetteact cetectee	328
	259	<210> SEQ ID NO: 18	
		<211> LENGTH: 315	
	261	<212> TYPE: DNA	
	262	<213> ORGANISM: Arabidopsis thaliana	
		<220> FEATURE:	
	265	<221> NAME/KEY: misc_feature	
	266	<222> LOCATION: (1)(315)	
		<223> OTHER INFORMATION: $n = A, T, C$ or G	
		<400> SEQUENCE: 18	
TAT .			
W--ノ	270	qqtatcqata aqcttqatat cqaattcqcq qccqccaatc cacccqtqaq nnncqataqt	60
W>	<b>270</b> 271		<b>60</b> 120
W>		tataccaacg totocattta gotogaaacg cagogtotoa tagaagttga ctaatgotgo	
W/	271 272	tataccaacg totocattta gotogaaacg cagogtotoa tagaagttga otaatgotgo ttttgcagca gaataaagao toatoogtgg tagaggoaac cagttttoaa oogatgoatt	120
M — — >	271	tataccaacg totocattta gotogaaacg cagogtotoa tagaagttga otaatgotgo ttttgcagca gaataaagac toatoogtgg tagaggoaac cagttttcaa cogatgoatt cacgactatt oggocattog totggtgaag gtatggoaac gotacgtatg toggataaac	120 180
vv — — ,	<ul><li>271</li><li>272</li><li>273</li></ul>	tataccaacg totocattta gotogaaacg cagogtotoa tagaagttga otaatgotgo ttttgcagca gaataaagac toatoogtgg tagaggoaac cagttttcaa cogatgoatt cacgactatt oggocattog totggtgaag gtatggoaac gotacgtatg toggataaac attococcag aagtttatgt ocagoaaatg tggaaacaca gtogtgtcac toacttooto	120 180 240
w /	271 272 273 274 275	tataccaacg totocattta gotogaaacg cagogtotoa tagaagttga otaatgotgo ttttgcagca gaataaagac toatoogtgg tagaggcaac cagttttcaa cogatgoatt cacgactatt oggocattog totggtgaag gtatggcaac gotacgtatg toggataaac attoccocag aagtttatgt coagcaaatg tggaaacaca gtogtgtcac toacttooto aaagtaaaaa gtgtg	120 180 240 300
v4 /	271 272 273 274 275 277	tataccaacg totocattta gotogaaacg cagogtotoa tagaagttga otaatgotgo ttttgcagca gaataaagac toatoogtgg tagaggoaac cagttttcaa cogatgoatt cacgactatt oggocattog totggtgaag gtatggoaac gotacgtatg toggataaac attococcag aagtttatgt ocagoaaatg tggaaacaca gtogtgtcac toacttooto	120 180 240 300
v4 /	271 272 273 274 275 277 278	tataccaacg totocattta gotogaaacg cagogtotoa tagaagttga otaatgotgo ttttgcagca gaataaagac toatocgtgg tagaggcaac cagttttoaa cogatgoatt cacgactatt cggccattcg totggtgaag gtatggcaac gotacgtatg toggataaac attococcag aagtttatgt ccagcaaatg tggaaacaca gtogtgtoac toacottooto aaagtaaaaa gtgtg <210> SEQ ID NO: 19	120 180 240 300
W >	271 272 273 274 275 277 278 279	tataccaacg totocattta gotogaaacg cagogtotca tagaagttga ctaatgotgo ttttgcagca gaataaagac toatcogtgg tagaggcaac cagttttcaa cogatgcatt cacgactatt cggccattcg totggtgaag gtatggcaac gotacgtatg toggataaac attococcag aagtttatgt ccagcaaatg tggaaacaca gtogtgtcac toacttootc aaagtaaaaa gtgtg <210> SEQ ID NO: 19 <211> LENGTH: 292 <212> TYPE: DNA	120 180 240 300
M>	271 272 273 274 275 277 278 279 280	tataccaacg tctccattta gctcgaaacg cagcgtctca tagaagttga ctaatgctgc ttttgcagca gaataaagac tcatccgtgg tagaggcaac cagttttcaa ccgatgcatt cacgactatt cggccattcg tctggtgaag gtatggcaac gctacgtatg tcggataaac attcccccag aagtttatgt ccagcaaatg tggaaacaca gtcgtgtcac tcacttcctc aaagtaaaaa gtgtg <210> SEQ ID NO: 19 <211> LENGTH: 292	120 180 240 300
M>	271 272 273 274 275 277 278 279 280 282	tataccaacg totocattta gotogaaacg cagogtotca tagaagttga ctaatgotgo ttttgcagca gaataaagac toateegtgg tagaggcaac cagttttcaa cogatgcatt cacgactatt cggccattcg totggtgaag gtatggcaac gotacgtatg toggataaac attocccag aagtttatgt ccagcaaatg tggaaacaca gtogtgtcac toacttoctc aaagtaaaaa gtgtg <210> SEQ ID NO: 19 <211> LENGTH: 292 <212> TYPE: DNA <213> ORGANISM: Arabidopsis thaliana	120 180 240 300
M>	271 272 273 274 275 277 278 279 280 282	tataccaacg totocattta gotogaaacg cagogtotca tagaagttga ctaatgotgo ttttgcagca gaataaagac toatcogtgg tagaggcaac cagttttcaa cogatgcatt cacgactatt cggccattcg totggtgaag gtatggcaac gotacgtatg toggataaac attoccccag aagtttatgt coagcaaatg tggaaacaca gtogtgtcac toacttoctc aaagtaaaaa gtgtg <210> SEQ ID NO: 19 <211> LENGTH: 292 <212> TYPE: DNA <213> ORGANISM: Arabidopsis thaliana <400> SEQUENCE: 19 tttttttt ttttttttt tttaaatggg toaagacaac taaaacttga tgaatccaaa	120 180 240 300 315
M>	271 272 273 274 275 277 278 279 280 282 283	tataccaacg totocattta gotogaaacg cagogtotca tagaagttga ctaatgotgo ttttgcagca gaataaagac toatcogtgg tagaggcaac cagttttcaa cogatgcatt cacgactatt cggccattcg totggtgaag gtatggcaac gotacgtatg toggataaac attoccccag aagtttatgt ccagcaaatg tggaaacaca gtogtgtcac toacttoctc aaagtaaaaa gtgtg <210> SEQ ID NO: 19 <211> LENGTH: 292 <212> TYPE: DNA <213> ORGANISM: Arabidopsis thaliana <400> SEQUENCE: 19 tttttttt ttttttttt tttaaatggg tcaagacaac taaaacttga tgaatccaaa aagaaaaaga acaatggaaa ttttggggct aagtactott tgtttttgtt ttotcagaac	120 180 240 300 315
M>	271 272 273 274 275 277 278 279 280 282 283 284	tataccaacg totocattta gotogaaacg cagogtotca tagaagttga ctaatgotgo ttttgcagca gaataaagac toatcogtgg tagaggcaac cagttttcaa cogatgcatt cacgactatt cggccattcg totggtgaag gtatggcaac gotacgtatg toggataaac attoccccag aagtttatgt ccagcaaatg tggaaacaca gtogtgtcac toacttoctc aaagtaaaaa gtgtg <210> SEQ ID NO: 19 <211> LENGTH: 292 <212> TYPE: DNA <213> ORGANISM: Arabidopsis thaliana <400> SEQUENCE: 19 tttttttt tttttttt tttaaatggg tcaagacaac taaaacttga tgaatccaaa aagaaaaaga acaatggaaa ttttggggct aagtactott tgtttttgtt ttotcagaac agatgaaaca atottaaagg gttgtttcgt tcatcttcta gacttetttt ttgaggcctt	120 180 240 300 315
M>	271 272 273 274 275 277 278 279 280 282 283 284 285	tataccaacg totocattta gotogaaacg cagogtotca tagaagttga ctaatgotgo ttttgcagca gaataaagac toatcogtgg tagaggcaac cagtttcaa cogatgoatt cacgactatt cggccattcg totggtgaag gtatggcaac gotacgtatg toggataaac attococcag aagtttatgt ccagcaaatg tggaaacaca gtogtgtcac toacttootc aaagtaaaaa gtgtg  <210> SEQ ID NO: 19 <211> LENGTH: 292 <212> TYPE: DNA <213> ORGANISM: Arabidopsis thaliana <400> SEQUENCE: 19  tttttttt tttttttt tttaaatggg tcaagacaac taaaacttga tgaatccaaa aagaaaaaga acaatggaaa ttttggggct aagtactott tgtttttgtt ttocagaac agatgaaaca atottaaagg gttgtttcgt tcatottota gacttotttt ttgaaggcett agaggaaggc gcaggtgcat tocotttaga actggccact tggtttgact ttgaagttga	120 180 240 300 315
M>	271 272 273 274 275 277 278 279 280 282 283 284 285 286 287	tataccaacg totocattta gotogaaacg cagogtotca tagaagttga ctaatgotgo ttttgcagca gaataaagac toatcogtgg tagaggcaac cagttttcaa cogatgcatt cacgactatt cggccattcg totggtgaag gtatggcaac gotacgtatg toggataaac attoccccag aagtttatgt ccagcaaatg tggaaacaca gtogtgtcac toacttootc aaagtaaaaa gtgtg <210> SEQ ID NO: 19 <211> LENGTH: 292 <212> TYPE: DNA <213> ORGANISM: Arabidopsis thaliana <400> SEQUENCE: 19  tttttttt tttttttt tttaaatggg tcaagacaac taaaacttga tgaatccaaa aagaaaaaga acaatggaaa ttttggggct aagtactott tgtttttgtt ttoccagaac agatgaaaca atottaaagg gttgtttogt tcatottota gacttotttt ttgaggcett agaggaaggc gcaggtgcat tocottaga actgccact tggtttgact ttgaagttga aggagctgct tottgtttat cottggtcac cgcaccotgc gagccacgga tt	120 180 240 300 315 60 120 180 240
M>	271 272 273 274 275 277 278 279 280 282 283 284 285 286 287 289	tataccaacg tctccattta gctcgaaacg cagcgtctca tagaagttga ctaatgctgc ttttgcagca gaataaagac tcatccgtgg tagaggcaac cagtttcaa ccgatgcatt cacgactatt cggccattcg tctggtgaag gtatggcaac gctacgtatg tcggataaacc attcccccag aagtttatgt ccagcaaatg tggaaacaca gtcgtgtcac tcacttcctc aaagtaaaaa gtgtg  <210> SEQ ID NO: 19  <211> LENGTH: 292  <212> TYPE: DNA  <213> ORGANISM: Arabidopsis thaliana  <400> SEQUENCE: 19  tttttttt tttttttt tttaaatggg tcaagacaac taaaacttga tgaatccaaa aagaaaaaga acaatggaaa ttttggggct aagtactctt tgtttttgtt ttctcagaac agatgaaaca atcttaaagg gttgtttcgt tcatcttcta gacttctttt ttgaggcctt agaggaaggc gcaggtgcat tccctttaga actggccact tggtttgact ttgaagttga aggagctgct tcttgtttat ccttggtcac cgcaccctgc gagccacgga tt  <210> SEQ ID NO: 20	120 180 240 300 315 60 120 180 240
M>	271 272 273 274 275 277 278 279 280 282 283 284 285 286 287 289	tataccaacg totocattta gotogaaacg cagogotoca tagaagttga otaatgotgo tittigoagca gaataaagac toatcogtgg tagaggoaac cagititoaa cogatgoatt cacgactatt oggocattog totggtgaag giatggoaac gotacgiatg toggataaac attococcag aagitiatgi coagoaaatg tggaaacaca gotogotoca toactootoc aaagitaaaaa gigitg (210> SEQ ID NO: 19 (211> LENGTH: 292 (212> TYPE: DNA (213> ORGANISM: Arabidopsis thaliana (400> SEQUENCE: 19 (210) tittitititi tittitititi tittaaatggg toaagacaac taaaactiga tgaatocaaa aagaaaaaga acaatggaaa tittigggot aagitactoti tigititigit toocaaa agatgaaaca atottaaagg gitgitiogi toatottota gactictiti tigaggoott aggaggaaggo goaggigoat toocottaga actigocact tigitigact tigaagitga aggaggotgot totigitiat cottiggicae ogcaccotgo gagocacgga ti (210> SEQ ID NO: 20 (211> LENGTH: 137)	120 180 240 300 315 60 120 180 240
M>	271 272 273 274 275 277 278 279 280 282 283 284 285 286 287 290 291	tataccaacg totocattta gotogaaacg cagogtotca tagaagttga ctaatgotgo ttttgcagca gaataaagac toatcogtgg tagaggcaac cagttttcaa cogatgcatt cacgactatt cggccattcg totggtgaag gtatggcaac gotacgtatg toggataaac attoccccag aagtttatgt ccagcaaatg tggaaacaca gtogtgtcac toacttootc aaagtaaaaa gtgtg  <210> SEQ ID NO: 19  <211> LENGTH: 292  <212> TYPE: DNA  <213> ORGANISM: Arabidopsis thaliana  <400> SEQUENCE: 19  tttttttt tttttttt tttaaatggg tcaagacaac taaaacttga tgaatccaaa aagaaaaaga acaatggaaa ttttggggct aagtactctt tgttttgtt toacaac agatgaaca atottaaagg gttgtttogt toatcttcta gacttottt ttgaggcctt agaggaaggc gcaggtgcat tocottaga actggccact tggtttgact ttgaagttga aggagctgct tottgttat cottggtcac cgcaccotgc gagccacgga tt  <210> SEQ ID NO: 20  <211> LENGTH: 137  <212> TYPE: DNA	120 180 240 300 315 60 120 180 240
M>	271 272 273 274 275 277 278 279 280 282 283 284 285 286 287 289 290 291 292	tataccaacg tctccatta gctcgaaacg cagcgtcta tagaagttga ctaatgctgc ttttgcagca gaataaagac tcatccgtgg tagaggcaac cagtttcaa ccgatgcatt cacgactatt cggccattcg tctggtgaag gtatggcaac gctacgtatg tcggataaac attcccccag aagttatgt ccagcaaatg tggaaacaca gtcgtgtcac tcacttcctc aaagtaaaaa gtgtg <210> SEQ ID NO: 19 <211> LENGTH: 292 <212> TYPE: DNA <213> ORGANISM: Arabidopsis thaliana <400> SEQUENCE: 19 tttttttt tttttttt tttaaatggg tcaagacaac taaaacttga tgaatccaaa aagaaaaaga acaatggaaa ttttggggct aagtactctt tgttttgtt ttctcagaac agatgaaaca atcttaaagg gttgtttcgt tcatcttcta gacttcttt ttgaggcctt agaggaaggc gcaggtgcat tccctttaga actggccact tggtttgact ttgaagttga aggagctgct tcttgttat ccttggtcac cgcaccctgc gagccacgga tt <210> SEQ ID NO: 20 <211> LENGTH: 137 <212> TYPE: DNA <213> ORGANISM: Arabidopsis thaliana	120 180 240 300 315 60 120 180 240
M>	271 272 273 274 275 277 278 279 280 282 283 284 285 286 287 289 290 291 292	tataccaacg tctccattta gctcgaaacg cagcgtctca tagaagttga ctaatgctgc ttttgcagca gaataaagac tcatccgtgg tagaggcaac cagttttcaa ccgatgcatt cacgactatt cggccattcg tctggtgaag gtatggcaac gctacgtatg tcggataaac attcccccag aagtttatgt ccagcaaatg tggaaacaca gtcgtgtcac tcacttcctc aaagtaaaaa gtgtg <210> SEQ ID NO: 19 <211> LENGTH: 292 <212> TYPE: DNA <213> ORGANISM: Arabidopsis thaliana <400> SEQUENCE: 19 tttttttt ttttttttt ttttaaatggg tcaagacaac taaaacttga tgaatccaaa aagaaaaaga acaatggaaa ttttggggct aagtactctt tgtttttgtt ttctcagaac agatgaaaca atcttaaagg gttgtttcgt tcatcttcta gacttcttt ttgaggcctt agaggaaggc gcaggtgcat tccctttaga actggccact tggtttgact ttgaagttga aggagctgct tcttgtttat ccttggtcac cgcaccctgc gagccacgga tt <210> SEQ ID NO: 20 <211> LENGTH: 137 <212> TYPE: DNA <213> ORGANISM: Arabidopsis thaliana <400> SEQUENCE: 20	120 180 240 300 315 60 120 180 240
M>	271 272 273 274 275 277 278 279 280 282 283 284 285 286 287 289 290 291 292	tataccaacg tctccattta gctcgaaacg cagcgtctca tagaagttga ctaatgctgc ttttgcagca gaataaagac tcatccgtgg tagaggcaac cagttttcaa ccgatgcatt cacgactatt cggccattcg tctggtgaag gtatggcaac gctacgtatg tcggataaac attcccccag aagtttatgt ccagcaaatg tggaaacaca gtcgtgtcac tcacttcctc aaagtaaaaa gtgtg <210> SEQ ID NO: 19 <211> LENGTH: 292 <212> TYPE: DNA <213> ORGANISM: Arabidopsis thaliana <400> SEQUENCE: 19 tttttttt ttttttttt ttttaaatggg tcaagacaac taaaacttga tgaatccaaa aagaaaaaga acaatggaaa ttttggggct aagtactctt tgtttttgtt ttctcagaac agatgaaaca atcttaaagg gttgtttcgt tcatcttcta gacttcttt ttgaggcctt agaggaaggc gcaggtgcat tccctttaga actggccact tggtttgact ttgaagttga aggagctgct tcttgtttat ccttggtcac cgcaccctgc gagccacgga tt <210> SEQ ID NO: 20 <211> LENGTH: 137 <212> TYPE: DNA <213> ORGANISM: Arabidopsis thaliana <400> SEQUENCE: 20	120 180 240 300 315 60 120 180 240 292



Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/924,035A

DATE: 12/03/2001 TIME: 12:48:02

Input Set : N:\EBONY'S\924035.txt

Output Set: N:\CRF3\11212001\I924035A.raw

```
L:11 M:282 W: Numeric Field Identifier Missing, <140> CURRENT APPLICATION NUMBER: is Added.
L:36 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:66 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:394 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:462 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:606 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41
L:633 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43
L:634 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43
L:745 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50
L:775 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:776 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:791 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53
L:830 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:871 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58
L:872 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58
L:966 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65
L:1009 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68
L:1034 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:1192 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82
L:1258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88
L:1398 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:98
L:1434 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101
L:1452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:102
L:1476 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103
L:1494 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:104
L:1560 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:108
L:1561 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:108
L:1620 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112
L:1660 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:115
L:1677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116
L:1698 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:117
L:1714 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:118
L:1732 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:119
L:1739 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:119
L:1765 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121
L:1767 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121
L\!:\!1784 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122
L:1785 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122
L:1787 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122
L:1844 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127
L:1879 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:129
L:1925 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:132
L:1994 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:137
```

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/924,035A

DATE: 12/03/2001 TIME: 12:48:02

Input Set : N:\EBONY'S\924035.txt

Output Set: N:\CRF3\11212001\1924035A.raw

L:2097 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:145 L:2112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:146 L:2191 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:152